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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/740,079
		Filing Date	18 December 2003
		First Named Inventor	Sharat SINGH
		Art Unit	1743
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission		Attorney Docket Number	089.00US

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Replacement Drawings (4 sheets)	<input type="checkbox"/> After Allowance Communication to Technology Center (TC)
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<input type="checkbox"/> Preliminary Amendment	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Stephen C. Macevitz, Registration No. 30,285
Signature	
Date	01 July 2004

**CERTIFICATE OF MAILING**

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Typed or printed name	Virginia Griffith		
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Signature	Virginia Griffith	Date	01 July 2004
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Case No.089.00US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): Sharat Singh et al.

Serial No: 10/740,079

Examiner:Not Yet Assigned

Filed: 18 December 2003

Art Unit: 1743

For: CELL-SCREENING ASSAY AND  
COMPOSITION

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner of Patents  
Washington, D. C. 20231

Sir:

The references cited on the accompanying PTO-1449 form(s) may be material to the examination of the above-identified application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application. Copies of the cited references are enclosed or have been previously submitted in prior application(s) to the above application.

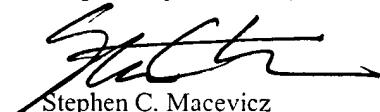
This Information Disclosure Statement under 37 CFR 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

## SUBMISSION INFORMATION

- This Information Disclosure Statement is being submitted within three (3) months of filing or before mailing of a first Office Action, whichever occurs last. (37 CFR 1.97(b))
  
- **FEE AUTHORIZATION.** The Commissioner is hereby authorized to withdraw from Deposit Account  
**50-2266**

any submission fees or petition fees required for this Information Disclosure Statement.

Respectfully submitted,



Stephen C. Macevicz  
Registration No. 30,285

Enclosures:      1449 form(s)  
Copie of Cited References

Form PTO-1449 (adapted)		Docket No. 089.00US	Serial No. 10/740,079
<b>REFERENCES CITED BY APPLICANT</b>		First Named Inventor Sharat Singh	Customer No. 33.603
		Filing Date 18 December 2003	Group 1743

**U.S. PATENT DOCUMENTS**

Examiner's Initial		Document Number	Inventor(s)	Issue Date (publication date) (mm dd yyyy)	Class/Subclass	Filing Date (mm dd yyyy)
	P1	2002/0037542	ALLBRITTON	(03/28/2002)	435/7.23	05/17/2001
	P2	4,331,590	BOCUSLASKI	05/25/1982	260/112 B	05/06/1980
	P3	4,650,750	GIESE	03/17/1987	435/7	03/19/1984
	P4	4,709,016	GIESE	11/24/1987	530/389	02/01/1982
	P5	4,780,421	KAMEDA	10/25/1988	436/518	04/03/1986
	P6	5,057,412	RABIN	10/15/1991	435/6	03/15/1988
	P7	5,340,716	ULLMAN	08/23/1994	435/6	06/20/1991
	P8	5,360,819	GIESE	11/01/1994	514/538	03/11/1985
	P9	5,470,705	GROSSMAN	11/28/1995	435/6	04/07/1992
	P10	5,494,793	SCHINDELE	02/27/1996	435/6	06/14/1989
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	P14	5,536,834	SINGH	07/16/1996	544/98	06/06/1995
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	P17	5,580,732	GROSSMAN	12/03/1996	435/6	08/26/1994
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	P19	5,604,104	GIESE	02/18/1997	435/7.1	02/08/1996

EXAMINER	Date considered
<p>*EXAMINER: Initial if reference considered, whether or not citation in conformance with MPEP 609; Draw line through citation if not in conformance and/or not considered. Include copy of this form with next communication to applicant.</p>	

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<b>REFERENCES CITED BY APPLICANT</b>		First Named Inventor Sharat Singh	Customer No. 33.603
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	<b>P20</b>	5,610,020	GIESE	03/11/1997	435/7.1	02/08/1996
	<b>P21</b>	5,616,719	DAVALIAN	04/01/1997	546/334	05/09/1995
	<b>P22</b>	5,624,800	GROSSMAN	04/29/1997	435/6	05/19/1995
	<b>P23</b>	5,650,270	GIESE	07/22/1997	435/6	03/20/1990
	<b>P24</b>	5,703,222	GROSSMAN	12/30/1997	536/24.3	11/21/1995
	<b>P25</b>	5,705,622	McCAPRA	01/06/1998	536/23.1	03/28/1996
	<b>P26</b>	5,709,994	PEASE	01/20/1998	435/4	06/06/1995
	<b>P27</b>	5,721,099	STILL	02/24/1998	435/6	06/07/1995
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	<b>P30</b>	5,777,096	GROSSMAN	07/07/1998	536/24.3	05/06/1996
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	<b>P34</b>	5,843,655	McGALL	12/01/1998	435/6	09/18/1995
	<b>P35</b>	5,843,666	AKHAVAN-TAFTI	12/01/1998	435/6	11/15/1996
	<b>P36</b>	5,846,839	GALLOP	12/08/1998	436/518	12/22/1995
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	<b>P39</b>	5,958,202	REGNIER	09/28/1999	204/451	01/22/1997
	<b>P40</b>	5,986,076	ROTHSCHILD	11/16/1999	536/22.1	11/22/1994
	<b>P41</b>	5,989,871	GROSSMAN	11/23/1999	435/91.1	02/14/1997

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Form PTO-1449 (adapted)		Docket No. 089.00US	Serial No. 10/740,079
<b>REFERENCES CITED BY APPLICANT</b>		First Named Inventor Sharat Singh	Customer No. 33.603
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	<b>P43</b>	6,027,890	NESS	02/22/2000	435/6	07/22/1997
	<b>P44</b>	6,251,581	ULLMAN	06/26/2001	435/4	05/22/1991
	<b>P46</b>	6,312,893	VAN NESS	11/06/2001	435/6	07/22/1997
	<b>P47</b>	6,322,980	SINGH	11/27/2001	435/6	04/30/1999
	<b>P48</b>	6,331,530	BRESLOW	12/18/2001	514/58	07/13/1999
	<b>P49</b>	6,335,201	ALLBRITTON	01/01/2002	436/63	07/21/1999
	<b>P50</b>	6,346,384	POLLNER	02/12/02	435/6	03/27/00
	<b>P51</b>	6,346,529	FLOYD	02/12/2002	514/226.2	04/15/1998
	<b>P52</b>	6,368,874	GALLOP	04/09/2002	436/518	11/17/1999

#### ADDITIONAL U.S. PATENT DOCUMENTS

Examiner's Initial		Document Number	Inventor(s)	Class /Subclass	Title	Issue Date or Publ. Date (dd.mm.yy)
	<b>PP1</b>	6,001,573	Roelant	435/6	Use of phorphyrins as a universal label	14 Dec 99
	<b>PP2</b>	6,489,116	Wagner	435/6	Sensitive, Multiplexed Diagnositc Assays for Protein Analysis	03 Dec 02
	<b>PP3</b>	6,627,400	Singh	435/6	Multiplexed Measurement of Membrane Protein Populations	30 Sep 03

#### FOREIGN PATENT DOCUMENTS

Examiner's Initial		Country	Document Number	Applicant	Date (mm-dd-yyyy)
	<b>F1</b>	WO	98/01533	BURSTEIN LABORATORIES, INC.	01/15/1998
	<b>F2</b>	WO	00/56925	ACLARA BIOSCIENCES, INC.	09/28/2000

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		Filing Date 18 December 2003	Group 1743

	<b>F3</b>	WO	00/66607	ACLARA BIOSCIENCES, INC.	11/09/2000
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#### **ADDITIONAL FOREIGN PATENT DOCUMENTS**

Examiner's Initial		Country and Document Number	Inventor	Title	Publication Date (dd-mm-yy)
	<b>FF1</b>	WO 01/57530	Liotta	Method and Apparatus for Signal Transduction Pathway Profiling	09 Aug 01
	<b>FF2</b>	WO 93/06121	Dower	Method of Synthesizing Diverse Collections of Oligomers	01 Apr 93

#### **OTHER REFERENCES**

Examiner's Initial		Citation
	<b>D1</b>	Lee et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes", Nucleic Acid Research, 1993, 21:3761-3766.
	<b>D2</b>	Holland et al., "Detection of specific polymerase chain reaction product by utilizing the 5'→ 3' exonuclease activity of <i>Thermus aquaticus</i> DNA polymerase", Proc. Natl. Acad. Sci. USA, 1991, 88:7276-7280.
	<b>D3</b>	Zlokarnik et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with β-Lactamase as Reporter", Science, 1998, 279:84-88
	<b>D4</b>	Deo et al., "Luminescent proteins from <i>Aequorea victoria</i> : applications in drug discovery and in high throughput analysis", Fresenius J. Anal. Chem., 2001; 369(3-4):258-266.
	<b>D5</b>	Beaudet, et al., "Homogenous Assays for Single-Nucleotide Polymorphism Typing Using AlphaScreen", Genome Research, 2001, 11:600-608.
	<b>D6</b>	Blakely, et al., "Epidermal growth factor receptor dimerization monitored in live cells", Nature Biotechnology, 2000, 18:218-222.
	<b>D7</b>	Goetz et al., "Development of a facile method for high throughput screening with reporter gene assays", J Biomol Screen., 2000; 5(5):377-384.
	<b>D8</b>	Hertzberg et al., "High-throughput screening: new technologies for the 21st Century", Curr. Opin. Chem. Biol., 2000; 4(4):445-451.
	<b>D9</b>	Marino et al., "Characterization of mitochondrial DNA using low-stringency single specific primer amplification analyzed by laser induced fluorescence—capillary electrophoresis", Electrophoresis, 1996; 17(9):1499-1504.
	<b>D10</b>	Meng et al., "A yeast two-hybrid approach for probing cytoskeletal protein interactions", Methods Mol. Biol., 2001; 161:255-268.
	<b>D11</b>	Matko, et al., "Energy Transfer Methods for Detecting Molecular Clusters on Cell Surfaces", Methods in Enzymology, 1997, 278:444-462.

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	Filing Date 18 December 2003	Group 1743

<b>D12</b>	Packard BioScience, "Principles of AlphaScreen", Application Note ASC-001, 2001.
<b>D13</b>	Price, et al., "Methods for the Study of Protein-Protein Interactions in Cancer Cell Biology", Methods in Molecular Biology, 2003, 218:255-267.
<b>D14</b>	Sako, et al., "Single-molecule imaging of EGFR signalling on the surface of living cells", Nature Cell Biology, 2000, 2:168-172.
<b>D15</b>	Giese, "Electrophoretic Release Tags: Ultrasensitive Molecular Labels Providing Multiplicity", Trends in Analytical Chemistry, Vol. 2, No. 7, 1983, pgs. 166-168.
<b>D16</b>	Olejnik et al., "Photocleavable Affinity Tags for Isolation and Detection of Biomolecules", Methods in Enzymology, Vol. 291, 1998, pgs. 135-154.
<b>D17</b>	Ullman et al., "Luminescent Oxygen Channeling Immunoassay: Measurement of Particle Binding Kinetics by Chemiluminescence", Proc. Natl. Acad. Sci. USA, Vol. 91, 1994, pgs. 5426-5430.
<b>D18</b>	Joppich-Kuhn et al, "Release Tags: A new class of analytical reagents," Clin. Chem., 28: 1844-1847 (1982)
<b>D19</b>	McVey et al, "Monitoring receptor oligomerization using time-resolved fluorescence resonance energy transfer and bioluminescence resonance energy transfer," J. Biol. Chem., 276: 14092-14099 (2001)
<b>D20</b>	Angers et al, "Detection of $\beta_2$ -Adrenergic Receptor Dimerization in Living Cells Using Bioluminescence Resonance Energy Transfer (BRET)", PNAS, March 28, 2000, Vol. 97, No. 7, 3684-3689
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<b>D22</b>	Silverman et al., "New assay technologies for high-throughput screening", Curr. Opin. Chem. Biol., 1998; 2:397-403.
<b>D23</b>	Topcu et al., "The yeast two-hybrid system and its pharmaceutical significance", Pharm. Res., 2000; 17:1049-1055.
<b>D24</b>	Walhout et al., "Yeast two-hybrid systems and protein interaction mapping projects for yeast and worm", Yeast, 2000; 17:88-94.
<b>D25</b>	White, "The future of PCR technology: diversification fo technologies and applications", Trends Biotechnol., 1996; 14:478-483.
<b>D26</b>	Zacharias et al., "Recent advances in technology for measuring and manipulating cell signals", Curr. Opin. Neurobiol., 2000; 10:416-421.
<b>D27</b>	Buckholz et al., "Automation of yeast two-hybrid screening", J. Mol. Microbiol. Biotechnol., 1999; 1:135-140.

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